

**AMENDMENTS TO THE CLAIMS:**

1-6 (canceled)

7. (currently amended) A method of enrichment for a composition of mammalian megakaryocyte progenitor cells, the method comprising:

combining reagents that specifically recognize CD41, CD9, CD34, CD2; CD3; CD4; CD7; CD8; CD10; CD11b; CD14; CD19; CD20; CD56; and glycophorin A with a sample of ~~hematopoietic stem cells~~; said sample selected from the group consisting of bone marrow and mobilized peripheral blood; and

selecting for those cells that express CD41, CD9 and CD34 and do not express CD2; CD3; CD4; CD7; CD8; CD10; CD11b; CD14; CD19; CD20; CD56, and glycophorin A, thereby providing a composition of mammalian megakaryocyte progenitor cells.

8-16 (canceled)